Index of Claims

| Α | pp | licat | tion | Con | trol | No. |
|---|----|-------|------|-----|------|-----|
|---|----|-------|------|-----|------|-----|

Applicant(s)/Patent under Reexamination

10/088,646 Examiner

LAKOWICZ, JOSEPH R.
Art Unit

Richard L. Raymond

1624

| √ | Rejected |
|---|----------|
| 1 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla             | aim      | Date         |  |          | <b></b>  | Claim Date |          |          |               |              | С        | aim             | Date     |                 |          |          |         |                 |               |  |       |            |          |          |          |          |   |          |          |                     |            |
|-----------------|----------|--------------|--|----------|----------|------------|----------|----------|---------------|--------------|----------|-----------------|----------|-----------------|----------|----------|---------|-----------------|---------------|--|-------|------------|----------|----------|----------|----------|---|----------|----------|---------------------|------------|
|                 |          | 5            | $\Box$   | П        | $\neg$   |            |          |          |               | Г            |          |                 |          |                 |          | Т        | T       |                 | T             |  |       | I          |          |          |          |          |   |          |          | $\neg$              | $\neg$     |
| ल               | Original |              |  |          | - !      |            |          |          |               |              | l        | <b>1</b> 6      | Original | H               |          |          | 1       |                 |               | 1  | न्त   | Original   |          |          | ŀ        |          |   |          |          |                     |            |
| Final           | ij       | 31<br>05     |  |          | - 1      |            |          |          |               |              |          | Final           | ij       |                 |          |          |         |                 |               |  | Final | <u>:</u> E |          |          | ļ        |          |   |          |          |                     |            |
| L.              | Ō        | OS           |  |          | ı        |            |          |          |               |              |          | _               | ō        |                 |          |          | 1       | 1               |               | 1  | _     | Ő          |          |          |          |          |   |          | l        |                     | -          |
|                 |          | -            | ╌  | $\dashv$ | ᅱ        | $\dashv$   | $\vdash$ |          | -             | -            | l        |                 | E4       | Н               |          | -        | +-      | ├               | +             | +  |       | 101        | Н        | $\vdash$ | -        | -        | _ | Н        |          | $\dashv$            | $\dashv$   |
|                 | 1        | ∹            | $\vdash$   | $\dashv$ |          | -          | $\vdash$ |          | _             | $\vdash$     |          |                 | 51       | Н               | $\dashv$ | +        | +-      | H               |               |  |       |            |          | -        |          |          |   | Н        | $\dashv$ | $\dashv$            | $\dashv$   |
|                 | 2        | ÷            | $\vdash$   | 4        | -        | $\Box$     | $\Box$   |          | L             | <u> </u>     |          |                 | 52       | Ш               | $\dashv$ |          |         | $\vdash$        |               | +  |       | 102        | -        | $\vdash$ |          | _        |   | -        | -        | $\dashv$            | $\dashv$   |
| <u> </u>        | 3        | 4            | $\vdash$   | 4        | _        | _          | Ш        |          | <u> </u>      | _            |          |                 | 53       | Ш               | $\dashv$ | $\perp$  | ╀       | $\vdash$        | -             | +  |       | 103        | Ш        | _        | _        | _        |   | _        | $\dashv$ | -                   | $\dashv$   |
|                 | 4        | 4            | $oxed{oxed}$                                     | _        |          |            | Ш        |          |               |              |          |                 | 54       | Ш               | $\dashv$ | _        | ┸       | $\sqcup$        |               |  |       | 104        | Ш        | Ш        |          |          |   |          |          | _                   | _          |
|                 | 5        | 1            | $oxed{oxed}$                                     | _        |          | _          |          |          |               | L            |          |                 | 55       |                 | $ \bot $ |          | ↓_      | $\sqcup$        | _             |  |       | 105        |          | Ш        |          |          |   | Ш        |          |                     |            |
|                 | 6        | <u> </u>     |  |          |          |            |          |          |               | _            |          |                 | 56       |                 |          |          |         | Ш               |               |  |       | 106        |          |          | $\Box$   |          |   | Ш        |          | $\dashv$            | $_{\perp}$ |
|                 | 7        | ب            | <u>l_l</u>                                       |          |          |            |          |          |               |              |          |                 | 57       |                 |          |          |         |                 |               |  |       | 107        |          |          |          |          |   |          |          |                     |            |
|                 | 8        | 4-1          |  |          |          |            |          |          |               |              |          |                 | 58       |                 |          |          |         |                 |               |  |       | 108        |          |          |          |          |   |          |          |                     |            |
|                 | 9        | ÷            |  |          | $\neg$   |            |          |          |               |              |          |                 | 59       |                 |          |          | Т       | П               | $\neg \vdash$ |  |       | 109        |          |          |          |          |   |          |          | $\neg$              | $\neg$     |
|                 | 10       | ÷            |  |          |          |            |          |          |               |              | l::::    |                 | 60       |                 | $\Box$   |          | T       | П               |               |  |       | 110        |          |          |          |          |   |          |          |                     | П          |
|                 | 11       | 1            |  | $\neg$   | 寸        |            |          |          | $\overline{}$ |              |          |                 | 61       |                 | $\neg$   | 一        | 1       | П               |               |  |       | 111        |          |          |          |          |   | П        |          |                     | ヿ          |
|                 | 12       |              |  | 十        | ┪        | $\dashv$   | $\Box$   | $\vdash$ | Т             | <b> </b>     |          |                 | 62       | М               | $\dashv$ | 一        | $\top$  | $\vdash$        | 一             |  |       | 112        | П        | П        |          |          |   | П        | $\dashv$ | _                   | ᅱ          |
|                 | 13       | 三            | 1  | $\dashv$ | -        |            | $\vdash$ | $\vdash$ | $\vdash$      | $\vdash$     |          |                 | 63       | Н               | _        | $\dashv$ | $\top$  | $\vdash$        | 十             | $\top$   |       | 113        | $\vdash$ | П        | $\neg$   | $\neg$   |   | $\vdash$ | $\neg$   | $\dashv$            | ᅱ          |
| $\vdash$        | 14       | :            | $\vdash$   | $\dashv$ | ┥        | $\dashv$   | $\vdash$ | $\vdash$ | $\vdash$      | $\vdash$     | <b> </b> | $\vdash$        | 64       | Н               | $\dashv$ | $\dashv$ | +-      | $\vdash$        |               | +  |       | 114        | $\vdash$ | Н        | $\vdash$ |          |   | $\vdash$ | $\dashv$ | $\dashv$            | $\dashv$   |
| $\vdash$        | 15       | + + +        | + +  | +        | $\dashv$ | -          | $\vdash$ | $\vdash$ | -             | $\vdash$     | l        | $\vdash \vdash$ | 65       | $\vdash$        | $\dashv$ |          | +       | $\vdash \vdash$ | +             | +  |       | 115        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | - | Н        | $\dashv$ | $\dashv$            | ᅱ          |
|                 | 16       | ند ب         | $\vdash$   | +        | ┥        | $\dashv$   | $\vdash$ | <u> </u> | $\vdash$      |              |          |                 | 66       | Н               | $\dashv$ |          | +       | $\vdash$        | +             | +  |       | 116        | Н        | Н        |          | $\vdash$ | _ | $\vdash$ | $\dashv$ | $\dashv$            | $\dashv$   |
|                 |          | 7            | $\vdash$   | +        | $\dashv$ | $\dashv$   | -        |          | -             |              |          |                 | 60       | Н               | $\dashv$ | $\dashv$ | +       | ┥               | -             | +  |       | 110        | Н        |          |          |          | _ | Н        | $\dashv$ | $\dashv$            | $\dashv$   |
|                 | 17       | ÷            | <b>├</b>   | -        | -        | _          | -        | _        | _             | -            |          |                 | 67       | Н               | 4        | _        | +-      | $\vdash$        |               |  |       | 117        | Н        | $\vdash$ |          |          |   | Н        | $\dashv$ |                     | $\dashv$   |
|                 | 18       |              | $\sqcup$   | 4        | _        |            |          |          | _             | <u> </u>     |          |                 | 68       | Ш               | 4        | _        |         | $\sqcup$        | _             |  |       | 118        |          | _        |          |          |   | Ш        | _        | ·                   | 4          |
|                 | 19       |              | oxdot  | $\perp$  | _        |            |          |          |               | <u> </u>     |          |                 | 69       |                 | _        |          |         | Ш               |               | $\perp$  |       | 119        |          |          |          |          |   |          | _        | _                   | _          |
|                 | 20       |              |  |          |          |            | Ш        |          |               |              |          |                 | 70       | L.,             |          |          | 丄       | Ш               |               |  |       | 120        |          |          |          |          |   |          | $\dashv$ | _                   | _          |
|                 | 21       |              |  |          |          |            |          |          |               |              | <b>.</b> |                 | 71       |                 |          |          |         |                 |               |  |       | 121        |          |          |          |          |   |          | $\Box$   | ${\color{red}\bot}$ | ╝          |
|                 | 22       |              |  |          |          |            |          |          |               |              |          |                 | 72       |                 |          |          |         |                 |               |  |       | 122        |          |          |          |          |   |          |          |                     |            |
|                 | 23       |              |  |          | $\neg$   |            |          |          |               |              |          |                 | 73       |                 |          |          | 1       |                 |               |  |       | 123        |          |          |          |          |   |          |          |                     |            |
|                 | 24       |              |  | П        | ヿ        |            |          |          |               |              |          |                 | 74       |                 |          |          |         | П               |               |  |       | 124        |          |          |          |          |   |          |          | $\neg$              | П          |
|                 | 25       |              | $\Box$   |          | コ        |            |          |          | _             |              |          |                 | 75       |                 | T        |          | 1       | П               |               | 1  |       | 125        |          |          |          |          |   |          |          | $\neg$              |            |
|                 | 26       |              |  |          | 一        |            |          |          | -             |              |          |                 | 76       |                 | $\neg$   |          | $\top$  |                 |               | $\neg$   |       | 126        | П        |          |          |          |   | П        | $\neg$   |                     | ヿ          |
|                 | 27       |              |  | 十        | ┪        |            |          |          |               |              |          |                 | 77       | М               | $\neg$   | $\neg$   | $\top$  | $\vdash$        | $\dashv$      | $\top$   |       | 127        | т        | П        |          |          |   | М        | $\neg$   | $\neg$              | ᅥ          |
|                 | 28       | -            | $\vdash$   | $\dashv$ | ┪        | $\dashv$   | Н        | _        | $\vdash$      | -            |          |                 | 78       | Н               | $\dashv$ | +        | +       | Н               | -             | +  |       | 128        | Н        | Н        |          | _        |   | Н        |          |                     |            |
|                 | 29       |              | ╁┼┼  | $\dashv$ | ┥        |            | -        |          |               | -            |          | _               | 79       | Н               | -        |          | +       | $\vdash$        | $\dashv$      | +  |       | 129        | Н        | -        | _        |          |   | Н        | $\dashv$ | $\dashv$            | $\dashv$   |
|                 |          |              | ╁┼   | +        | $\dashv$ |            | Н        |          |               |              |          |                 | 80       | Н               | $\dashv$ | +        | +-      | $\vdash$        | $\dashv$      | +  |       | 130        | Н        |          | $\dashv$ |          |   |          | $\dashv$ | $\dashv$            | $\dashv$   |
|                 | 30       | -            | -  | $\dashv$ | $\dashv$ | -          |          | _        |               | -            |          | _               |          | -               | $\dashv$ |          | —       | $\vdash$        | +             | +  |       |            | Н        |          |          |          | _ | Н        | $\dashv$ | $\dashv$            | $\dashv$   |
|                 | 31       | _            | $\vdash$   | +        | $\dashv$ | -          |          | _        | _             | <u> </u>     |          |                 | 81       | -               | $\dashv$ |          | -       | $\vdash$        |               | +  |       | 131        | Н        | -        |          |          |   | Н        | $\dashv$ | $\dashv$            | ᅴ          |
|                 | 32       |              | $\vdash$   | $\dashv$ | _        | _          |          |          |               | _            |          |                 | 82       |                 |          | _        | -       | $\vdash$        | -             |  |       | 132        | _        |          |          |          |   | Ш        | $\dashv$ | $\dashv$            | $\dashv$   |
|                 | _33      | _            | $\sqcup$   | 4        | _        |            |          | Ш        | L             | L_           |          | ш               | 83       |                 | _        |          |         | $\sqcup$        |               | 4  |       | 133        | Щ        | Ш        |          |          | _ | Ш        |          | _                   | ᅴ          |
|                 | 34       |              |  | $\perp$  | _        |            |          | Ш        |               | <u> </u>     |          |                 | 84       | Ш               | _        | $\perp$  | _       | $\sqcup$        |               | $\perp$  |       | 134        | Щ        |          |          | Щ        |   | Ш        | Ц        |                     | $\Box$     |
| <u></u>         | 35       | <u></u>      | $\sqcup$   | _        | $\perp$  |            |          | Ш        |               |              |          | ш               | 85       |                 |          |          |         | Ш               | _             | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |       | 135        |          |          |          |          |   |          |          | $\perp$             | $\Box$     |
|                 | 36       |              |  |          |          | ]          |          |          |               | L            |          |                 | 86       |                 |          |          |         |                 |               |  |       | 136        |          |          |          |          |   |          |          |                     |            |
|                 | 37       | Ľ            |  | T        | J        |            |          |          |               |              |          |                 | 87       |                 |          |          |         |                 | [_            |  |       | 137        |          |          |          |          |   |          |          | $\Box$              |            |
|                 | 38       |              |  |          | ╗        |            |          |          |               |              |          |                 | 88       |                 |          | $\Box$   | П       |                 | T             | П  |       | 138        |          |          |          |          |   |          |          | $\Box$              |            |
|                 | 39       |              | $\Box$   | $\neg$   | $\neg$   |            |          |          |               |              |          |                 | 89       |                 |          |          |         | $\Box$          |               | T  |       | 139        | П        |          |          |          |   |          |          | $\neg$              | $\neg$     |
|                 | 40       |              | П  | 十        | ヿ        | $\neg$     |          |          |               |              |          |                 | 90       | П               | 寸        | $\dashv$ | 1       | $\sqcap$        | 丁             | $\top$   |       | 140        |          | П        |          |          |   |          | ヿ        | $\dashv$            | ヿ          |
|                 | 41       | Г            |  | $\top$   | $\neg$   |            |          | П        |               |              |          |                 | 91       |                 |          | _        | $\top$  | $\sqcap$        |               | $\top$   |       | 141        | Н        | $\vdash$ | $\neg$   | $\neg$   | _ | П        | -        | $\dashv$            | $\dashv$   |
|                 | 42       | ┢            | $\vdash$   | $\dashv$ | ┪        | $\dashv$   | $\dashv$ | $\vdash$ | _             | $\vdash$     |          | H               | 92       | Н               | $\dashv$ | +        | +       | $\vdash$        | $\dashv$      | $\top$   |       | 142        | Н        | $\vdash$ |          | -        |   | H        | $\dashv$ | $\dashv$            | ᅱ          |
|                 | 43       | -            | <del>   </del>                                   | ┰        | $\dashv$ | $\dashv$   | $\vdash$ | $\vdash$ | $\vdash$      | $\vdash$     |          | $\vdash \vdash$ | 93       | $\vdash$        | $\dashv$ | $\dashv$ | +-      | $\vdash$        | $\dashv$      | +  |       | 143        | Н        | $\vdash$ |          |          |   | Н        | -        | $\dashv$            | ᅱ          |
| $\vdash \vdash$ | 44       | $\vdash$     | $\vdash \vdash$                                  | +        | $\dashv$ | $\dashv$   | $\dashv$ | $\vdash$ | ├-            | -            |          | $\vdash$        |          | $\vdash \dashv$ | $\dashv$ | +        | +       | $\vdash$        | $\dashv$      | +-   |       | 144        | Н        | $\vdash$ | $\vdash$ | $\vdash$ |   | Н        | $\dashv$ | $\dashv$            | $\dashv$   |
| <u> </u>        | 45       | $\vdash$     | $\vdash \vdash$                                  | $\dashv$ | -        | $\dashv$   | $\dashv$ | $\vdash$ | <u> </u>      | <del> </del> |          | $\vdash$        | 94<br>95 | $\vdash$        | -        | +        | +       | $\vdash$        |               |  |       | 144        | $\vdash$ | $\vdash$ | $\dashv$ | $\vdash$ |   | $\vdash$ | $\dashv$ | -+                  | ᅴ          |
| $\vdash$        |          | <del> </del> | ₩  | $\dashv$ | -        |            | $\vdash$ |          | <u> </u>      |              |          | <u> </u>        |          | $\vdash \vdash$ | $\dashv$ | +        | +       | ⊦-⊦             |               | +  |       |            | $\vdash$ | Н        | $\dashv$ |          | _ | Н        | $\dashv$ | $\dashv$            |            |
| ļ               | 46       | <u> </u>     | <del>                                     </del> | 4        | 4        | $\dashv$   |          | $\vdash$ | _             | <b>!</b>     |          | $\vdash$        | 96       | Щ               | 4        | -        |         | $\vdash \vdash$ | 4             | ┯  |       | 146        | Щ        | Ш        | _        | Щ        |   | Ш        | $\dashv$ | 4                   | _          |
| <u> </u>        | 47       | <u> </u>     | $\sqcup$   | 4        | _        | _          |          | Ш        |               | <u> </u>     |          | igsquare        | 97       | Щ               | _ļ       |          | _       | Ш               |               | ш  |       | 147        | Щ        | Ш        |          |          |   | Ш        |          | _                   | ᆜ          |
|                 | 48       | <u> </u>     | $\perp$  | _        | _        |            |          |          |               | <u> </u>     |          |                 | 98       | Ш               | _        | $\bot$   | $\perp$ | $\sqcup$        |               | $\perp$  |       | 148        |          |          |          |          |   | Ш        |          | _                   | $\Box$     |
|                 | 49       | L            | $\sqcup$   | $\perp$  |          | $_{\perp}$ |          |          | _             | $oxed{oxed}$ |          |                 | 99       |                 |          |          |         | Ш               |               |  |       | 149        |          |          |          |          |   | $\Box$   |          |                     |            |
|                 | 50       | L            |  |          |          |            |          |          |               |              |          |                 | 100      | ı I             |          | 1        | 1       | Ιſ              |               |  |       | 150        |          |          | - 1      |          |   | 1 ]      |          |                     | 1          |